Ernst Pernicka

List of Publications by Year
in descending order

109 papers	6,582 citations	87888 38 h-index	66911 78 g-index
116 all docs	116 docs citations	116 times ranked	3514 citing authors

#	Article	IF	Citations
1	GALLEX solar neutrino observations: results for GALLEX IV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 447, 127-133.	4.1	1,122
2	Solar neutrinos observed by GALLEX at Gran Sasso. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 285, 376-389.	4.1	376
3	First results from the 51Cr neutrino source experiment with the GALLEX detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 342, 440-450.	4.1	268
4	Final results of the 51Cr neutrino source experiments in GALLEX. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 420, 114-126.	4.1	251
5	GALLEX solar neutrino observations: Results for GALLEX III. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 388, 384-396.	4.1	218
6	GALLEX results from the first 30 solar neutrino runs. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 327, 377-385.	4.1	211
7	On the origins of extractive metallurgy: new evidence from Europe. Journal of Archaeological Science, 2010, 37, 2775-2787.	2.4	196
8	Implications of the GALLEX determination of the solar neutrino flux. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 285, 390-397.	4.1	175
9	Kinship-based social inequality in Bronze Age Europe. Science, 2019, 366, 731-734.	12.6	175
10	GALLEX solar neutrino observations: complete results for GALLEX II. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 357, 237-247.	4.1	149
11	The Determination of Lead Isotope Ratios by Multiple Collector Icp-Ms: A Case Study of Early Bronze Age Artefacts and their Possible Relation With Ore Deposits of the Erzgebirge*. Archaeometry, 2003, 45, 61-100.	1.3	139
12	PREHISTORIC COPPER PRODUCTION IN THE INN VALLEY (AUSTRIA), AND THE EARLIEST COPPER IN CENTRAL EUROPE*. Archaeometry, 2005, 47, 293-315.	1.3	135
13	Ru, Re, Os, Pt and Au in iron meteorites. Geochimica Et Cosmochimica Acta, 1987, 51, 1717-1726.	3.9	130
14	Chemical Characterisation of NIST Silicate Glass Certified Reference Material SRM 610 by ICP-MS, TIMS, LIMS, SSMS, INAA, AAS and PIXE. Geostandards and Geoanalytical Research, 1997, 21, 101-114.	3.1	130
15	Provenance Determination of Archaeological Metal Objects. , 2014, , 239-268.		128
16	GALLEX solar neutrino observations. The results from GALLEX I and early results from GALLEX II. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 314, 445-458.	4.1	124
17	TIN ISOTOPYâ€"A NEW METHOD FOR SOLVING OLD QUESTIONS. Archaeometry, 2010, 52, 816-832.	1.3	106
18	Eneolithic and Early Bronze Age copper artefacts from the Balkans and their relation to Serbian copper ores. Prahistorische Zeitschrift, 1993, 68, 1-54.	0.4	97

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19	Precise and accurate determination of boron isotope ratios by multiple collector ICP-MS: origin of boron in the Ngawha geothermal system, New Zealand. Chemical Geology, 2003, 199, 331-342.	3.3	94
20	The miniaturized proportional counter HD-2(Fe)/(Si) for the GALLEX solar neutrino experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1993, 329, 541-550.	1.6	85
21	ENERGY DISPERSIVE Xâ€RAY FLUORESCENCE ANALYSIS OF ANCIENT COPPER ALLOYS: EMPIRICAL VALUES FOR PRECISION AND ACCURACY. Archaeometry, 1996, 38, 313-323.	1.3	82
22	More questions than answers: the Southeast Asian Lead Isotope Project 2009â€“2012. Journal of Archaeological Science, 2014, 42, 273-294.	2.4	82
23	The Provenance, Use, and Circulation of Metals in the European Bronze Age: The State of Debate. Journal of Archaeological Research, 2019, 27, 131-185.	4.0	82
24	Chemical composition and lead isotopy of copper and bronze from Nuragic Sardinia. European Journal of Archaeology, 2001, 4, 43-85.	0.5	80
25	COINS, ARTEFACTS AND ISOTOPESâ€”ARCHAEOMETALLURGY ANDARCHAEOMETRY*. Archaeometry, 2008, 50, 232-248.	1.3	76
26	Large scale smelting of speiss and arsenical copper at Early Bronze Age Arisman, Iran. Journal of Archaeological Science, 2012, 39, 1717-1727.	2.4	72
27	Enriched Subcontinental Upper Mantle beneath Southern India: Evidence from Pb, Nd, Sr, and C-O Isotopic Studies on Tamil Nadu Carbonatites. Journal of Petrology, 1998, 39, 1765-1785.	2.8	68
28	Volatiles in a peralkaline system: Abiogenic hydrocarbons and Fâ€“Clâ€“Br systematics in the naujaite of the IlÃmaussaq intrusion, South Greenlandâ˜†. Lithos, 2007, 95, 298-314.	1.4	61
29	Climatic influences on the growth rates of Mn crusts during the Late Quaternary. Earth and Planetary Science Letters, 1992, 109, 25-36.	4.4	57
30	ON THE COMPOSITION AND PROVENANCE OF METAL ARTEFACTS FROM POLIOCHNI ON LEMNOS. Oxford Journal of Archaeology, 1990, 9, 263-298.	0.4	56
31	THE PROVENANCE OF IRON ARTEFACTS FROM MANCHING: A MULTI-TECHNIQUE APPROACH*. Archaeometry, 2006, 48, 433-452.	1.3	55
32	Characterization of calibration materials for trace element analysis and fingerprint studies of gold using LA-ICP-MS. Journal of Analytical Atomic Spectrometry, 2009, 24, 476.	3.0	49
33	Isotopic and technological variation in prehistoric Southeast Asian primary copper production. Journal of Archaeological Science, 2011, 38, 3309-3322.	2.4	49
34	Isotope systematics and chemical composition of tin ingots from Mochlos (Crete) and other Late Bronze Age sites in the eastern Mediterranean Sea: An ultimate key to tin provenance?. PLoS ONE, 2019, 14, e0218326.	2.5	46
35	LAURITE AND RUARSITE FROM PODIFORM CHROMITITES AT KRAUBATH AND HOCHGROSSEN, AUSTRIA: NEW INSIGHTS FROM OSMIUM ISOTOPES. Canadian Mineralogist, 2003, 41, 331-352.	1.0	45
36	The determination of platinum group elements (PGE) in target rocks and fall-back material of the NÃ¶rdlinger Ries impact crater, Germany. Geochimica Et Cosmochimica Acta, 1994, 58, 5083-5090.	3.9	44

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37	The silver of the South Iberian El Argar Culture: A first look at production and distribution. Trabajos De Prehistoria, 2012, 69, 293-309.	0.7	42
38	Copper for the Pharaoh: Identifying multiple metal sources for Ramesses' workshops from bronze and crucible remains. Journal of Archaeological Science, 2017, 80, 50-73.	2.4	39
39	Measurements on radioactivity of ancient roman lead to be used as shield in searches for rare events. Nuclear Instruments & Methods in Physics Research B, 1991, 61, 106-117.	1.4	38
40	Production of a 62 PBq 51Cr low energy neutrino source for GALLEX. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 378, 233-250.	1.6	38
41	Provenance of Iron Age iron in southern Germany: a new approach. Journal of Archaeological Science, 2013, 40, 841-849.	2.4	38
42	Determination of the Tin Stable Isotopic Composition in Tinâ€bearing Metals and Minerals by MCâ€ICPâ€MS. Geostandards and Geoanalytical Research, 2017, 41, 437-448.	3.1	37
43	An Assessment of Osmium Isotope Ratios as a New Tool to Determine the Provenance of Gold with Platinum-Group Metal Inclusions*. Archaeometry, 2003, 45, 313-331.	1.3	36
44	Tin isotope fractionation during experimental cassiterite smelting and its implication for tracing the tin sources of prehistoric metal artefacts. Journal of Archaeological Science, 2018, 92, 73-86.	2.4	35
45	Verification tests of the GALLEX solar neutrino detector, with 71Ge produced in-situ from the beta-decay of 71As. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 436, 158-173.	4.1	34
46	Chemical andÂlead isotope compositions ofÂlead artefacts from ancient Thracia (Bulgaria). Journal of Cultural Heritage, 2006, 7, 244-256.	3.3	34
47	Title is missing!. Mineralogy and Petrology, 2002, 76, 121-148.	1.1	33
48	The effect of instrumental mass bias on measurements: a comparison between thermal ionisation mass spectrometry and multiple-collector ICP-MS. International Journal of Mass Spectrometry, 2004, 232, 259-263.	1.5	32
49	Direct dating of gold by radiogenic helium: Testing the method on gold from Diamantina, Minas Gerais, Brazil. Geology, 2013, 41, 163-166.	4.4	32
50	Provenance of the gold of the Early Bronze Age Nebra Sky Disk, central Germany: geochemical characterization of natural gold from Cornwall. European Journal of Mineralogy, 2011, 23, 895-910.	1.3	30
51	Early Cambodian gold and silver from Prohear: composition, trace elements and gilding. Journal of Archaeological Science, 2012, 39, 2877-2887.	2.4	30
52	On the Invention of Gold Metallurgy: The Gold Objects from the Varna I Cemetery (Bulgaria)â€"Technological Consequence and Inventive Creativity. Cambridge Archaeological Journal, 2015, 25, 353-376.	0.9	30
53	Chondrules in the Sharps H3 chondrite: Evidence for intergroup compositional differences among ordinary chondrite chondrules. Geochimica Et Cosmochimica Acta, 1989, 53, 187-195.	3.9	28
54	On the trail of Scandinaviaâ€™s early metallurgy: Provenance, transfer and mixing. PLoS ONE, 2019, 14, e0219574.	2.5	27

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55	Shifting networks and mixing metals: Changing metal trade routes to Scandinavia correlate with Neolithic and Bronze Age transformations. PLoS ONE, 2021, 16, e0252376.	2.5	26
56	Crisis or Catharsis in Lead Isotope Analysis?. Journal of Mediterranean Archaeology, 1995, 8, 59-64.	0.9	26
57	Provenance determination of metal artifacts: Methodological considerations. Nuclear Instruments & Methods in Physics Research B, 1986, 14, 24-29.	1.4	25
58	Chondrules from Chainpur (LL-3): reduced parent rocks and vapor fractionation. Earth and Planetary Science Letters, 1984, 68, 43-56.	4.4	24
59	Copper processing in the oases of northwest Arabia: technology, alloys and provenance. Journal of Archaeological Science, 2015, 53, 492-503.	2.4	24
60	SOUTHEAST ASIA'S FIRST ISOTOPICALLY DEFINED PREHISTORIC COPPER PRODUCTION SYSTEM: WHEN DID EXTRACTIVE METALLURGY BEGIN IN THE KHAO WONG PRACHAN VALLEY OF CENTRAL THAILAND?. Archaeometry, 2011, 53, 146-163.	1.3	22
61	IDENTIFICATION OF FORGERIES BY MEASURING TIN ISOTOPES IN CORRODED BRONZE OBJECTS*. Archaeometry, 2012, 54, 167-174.	1.3	21
62	On smelting cassiterite in geological and archaeological samples: preparation and implications for provenance studies on metal artefacts with tin isotopes. Archaeological and Anthropological Sciences, 2019, 11, 293-319.	1.8	21
63	Chemical record of the projectile in the graded fall-back sedimentary unit from the Ries Crater, Germany. Earth and Planetary Science Letters, 1987, 86, 113-121.	4.4	19
64	COMMENTS â€¦ III. Archaeometry, 1992, 34, 322-322.	1.3	19
65	Repealing the Ã‡atalhÃ¶yÃ¼k extractive metallurgy: The green, the fire and the â€˜slagâ€™. Journal of Archaeological Science, 2017, 86, 101-122.	2.4	18
66	The Salcombe metal cargoes: New light on the provenance and circulation of tin and copper in Later Bronze Age Europe provided by trace elements and isotopes. Journal of Archaeological Science, 2022, 138, 105543.	2.4	18
67	Instrumental neutron activation analysis of native copper: Some methodological considerations. Journal of Radioanalytical and Nuclear Chemistry, 1995, 191, 145-161.	1.5	17
68	INTRODUCTION OF THE DEH HOSEIN ANCIENT TIN-COPPER MINE, WESTERN IRAN: EVIDENCE FROM GEOLOGY, ARCHAEOLOGY, GEOCHEMISTRY AND LEAD ISOTOPE DATA. Tuba-ar, 2009, , 223-236.	0.1	17
69	Ancient gold mines on Thasos. Die Naturwissenschaften, 1981, 68, 263-264.	1.6	16
70	X-Ray fluorescence analysis of base metal sulphide and iron-manganese oxide ore samples in fused glass disc. X-Ray Spectrometry, 1994, 23, 83-90.	1.4	16
71	COMMENTS ON P. BUDD, D. GALE, A. M. POLLARD, R. G. THOMAS AND P. A. WILLIAMS,â€˜EVALUATING LEAD ISOTOPE DATA: FURTHER OBSERVATIONSâ€™, ARCHAEOMETRY, 35 (2) (1993), AND REPLY. Archaeometry, 1993, 35, 259-263.	1.3	15
72	Pb isotope constraints on fluid flow and mineralization processes in SW Germany. Neues Jahrbuch Fur Mineralogie, Abhandlungen, 2012, 189, 287-309.	0.3	15

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73	Radiocarbon Dating of Iron Artifacts at the Erlangen AMS Facility. Radiocarbon, 2004, 46, 175-180.	1.8	13
74	The growth of early social networks: New geochemical results of obsidian from the Ubaid to Chalcolithic Period in Syria, Iraq and the Gulf. Journal of Archaeological Science: Reports, 2016, 9, 743-757.	0.5	13
75	Enriched Subcontinental Upper Mantle beneath Southern India: Evidence from Pb, Nd, Sr, and C-O Isotopic Studies on Tamil Nadu Carbonatites. Journal of Petrology, 1998, 39, 1765-1785.	2.8	12
76	Iridium concentration as an estimation of instantaneous sediment accumulation rates. Journal of Sedimentary Research, 1996, 66, 608-612.	1.6	11
77	DATING ARCHAEOMETALLURGICAL SLAGS USING THERMOLUMINESCENCE*. Archaeometry, 2003, 45, 519-530.	1.3	11
78	On the Composition and Provenance of Metal Finds from BeÅŸiktepe (Troia). Natural Science in Archaeology, 2003, , 173-201.	1.7	11
79	Chemical Composition and Lead Isotopy of Copper and Bronze from Nuragic Sardinia. European Journal of Archaeology, 2001, 4, 43-85.	0.5	11
80	Fingerprints in Gold. Natural Science in Archaeology, 2009, , 409-436.	1.7	9
81	Solar neutrinos observed by GALLEX at Gran Sasso. Nuclear Physics, Section B, Proceedings Supplements, 1993, 31, 117-124.	0.4	8
82	INAA of some geological standard reference materials. Journal of Radioanalytical and Nuclear Chemistry, 2002, 251, 139-143.	1.5	8
83	Comment on the Discussion of Ancient Tin Sources in Anatolia. Journal of Mediterranean Archaeology, 1992, 5, 91-98.	0.9	8
84	(Re)sources: Origins of metals in Late Period Egypt. Journal of Archaeological Science: Reports, 2018, 21, 318-339.	0.5	7
85	Identifying mixtures of metals by multiâ€isotope analysis: Disentangling the relationships of the Early Bronze Age swords of the Apaâ€“HajdÃºsÃ¡mson type and associated objects. Archaeometry, 2022, 64, 44-74.	1.3	7
86	Siderophile element concentrations in drill core samples from the Manson crater. , 1996, , .		6
87	Radiocarbon dating of iron artefacts at the Erlangen AMS-facility. Nuclear Instruments & Methods in Physics Research B, 2005, 240, 478-482.	1.4	6
88	Thorium and uranium abundances in the Jilin H5 chondrite. Earth and Planetary Science Letters, 1985, 72, 307-310.	4.4	5
89	Electrochemical lead separation from copper, copper alloy, silver and silver alloy for isotope ratio determination in archaeometric investigations. Analytica Chimica Acta, 2003, 497, 227-233.	5.4	5
90	The new Late Bronze Age hoard find from Kobbelbude (former Eastern Prussia, district Fischhausen) and the first results of its archaeometallurgical investigations. Archaeological and Anthropological Sciences, 2017, 9, 755-761.	1.8	5

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91	Provenance and recycling of ancient silver. A comment on â€œIridium to provenance ancient silverâ€•by Jonathan R. Wood, Michael F. Charlton, Mercedes Murillo-Barroso, Marcos MartinÃ³n-Torres. J. Archaeol. Sci. 81, 1â€“12. Journal of Archaeological Science, 2017, 86, 123-126.	2.4	5
92	Radiochemical neutron-activation analysis of sulphide ores using zinc diethyldithiocarbamate as extraction reagent. Analyst, The, 1978, 103, 475.	3.5	4
93	Pb isotope data of Roman and medieval objects from Wiesloch near Heidelberg, Germany. Archaeological and Anthropological Sciences, 2015, 7, 465-472.	1.8	3
94	The bronze cup from Dohnsen in the light of old and new evidence. Archaeometry, 2022, 64, 728-743.	1.3	3
95	Blei und Silber im Altertum: Ein Beitrag der ArchÃometrie. Chemie in Unserer Zeit, 1982, 16, 46-56.	0.1	2
96	Determination of zinc in clay and pottery materials by instrumental neutron activation analysis. Journal of Radioanalytical and Nuclear Chemistry, 2002, 251, 319-322.	1.5	2
97	ON THE ORIGIN OF STAMPED AMPHORAE FROM THRACE (BULGARIA). Oxford Journal of Archaeology, 2007, 26, 53-78.	0.4	2
98	Wild Goat style ceramics at Troy and the impact of Archaic period colonisation on the Troad. Anatolian Studies, 2013, 63, 35-53.	0.3	2
99	Development of metallurgy in Eurasia. Quaternary International, 2020, 560-561, 38-44.	1.5	2
100	Revealing ancient gold parting with silver and copper isotopes: implications from cementation experiments and for the analysis of gold artefacts. Archaeological and Anthropological Sciences, 2021, 13, 1.	1.8	2
101	The compositions of six Chinese ordinary chondrites and element distributions in their different phases. Diqiu Huaxue, 1992, 11, 214-223.	0.5	1
102	REE and other trace element chemistry of oldhamite (CaS) in the Qingzhen chondrite (EH3) and their genetic implications. Diqiu Huaxue, 1993, 12, 317-327.	0.5	1
103	Precise and Accurate Analysis of Gold Alloys: Varna, the Earliest Gold of Mankindâ€”A Case Study. Natural Science in Archaeology, 2016, , 95-113.	1.7	1
104	Rupert Gebhard und RÃ¼diger Krause: Bernstorf. ArchÃologisch-naturwissenschaftliche Analysen der Gold- und Bernsteinfunde vom Bernstorfer Berg bei Kranzberg, Oberbayern. Mit BeitrÃgen von Barbara Armbruster, Vanessa BÃhr, Ursula Baumer, Patrick Dietemann, Karl Thomas Fehr (â€), Peter Freiberger, Jochen Haberstroh, Werner HÃusler, Rupert Hochleitner, Helene Hoffmann, Bernd Kromer, Andrea Lazzaro, Paola Paoletti, Martin Pietsch, Martin Radtke, Christian Rewitzer, Astrid RÃ¶pke, Claudia Rohde, Harald Schulze, C.. Prahistorische Zeitschrift, 2018, 92, 428-444.	0.4	1
105	Lead isotope ratios and the provenance of medieval silver. Archaeological and Anthropological Sciences, 2020, 12, 1.	1.8	1
106	Discussion and reply to „Buchner & Schmieder (2017): Possible traces of the impactor on fracture surfaces of shattered belemnites from the NÃ¶rdlinger Ries crater (Southern Germany). Zeitschrift Der Deutschen Gesellschaft Fur Geowissenschaften, 2017, 168, 415-419.	0.4	1
107	Status report on theGALLEX experiment. Il Nuovo Cimento Della SocietÃ Italiana Di Fisica C, 1992, 15, 917-929.	0.2	0
108	Darhand copper occurrence:An example of Michigan-type native copper deposits in central Iran. , 2005, , 165-166.		0

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109	Book reviews - Tobias L. Kienlin. Traditions and transformations: approaches to Eneolithic (Copper) Tj ETQq1 1 0.784314 rgBT /Overlo (British Archaeological Reports International Series 2184). iv+406 pages, 302 illustrations, CD. 2011. Oxford: Archaeopress: 978-1-4073-0740-4 paperback Â£61.. Antiquity. 2011. 85. 1490-1491.	1.0	0